

PUBLIC NOTICE

COLORADO RIVER WATER CONSERVATION DISTRICT

The Colorado River Water Conservation District, a political subdivision of the State of Colorado, announces the availability of its 2003 Grant Program funds for water resource projects. The funds are available for construction or implementation of measures which fall into the following categories:

1. Development of a new water supply.
2. Improvement of an existing water supply system.
3. Improvement of instream water quality.
4. Measures which promote water use efficiency.
5. Sediment reduction.
6. Implementation of watershed management actions.

Project applicants should submit a grant request using the attached Application for Grant and attach additional information detailing the following:

1. Complete project description.
2. Narrative statement as to project purpose.
3. Project budget.
4. Project schedule, including commencement and completion dates for the project.
5. Project sponsor and participant data.

Project applicants or their contractors will be required to provide proof of insurance at limits specified by the River District's Board of Directors. These limits can be found on our website under Insurance Requirements.

Grant funds will be issued in two payments. Approved applicants will receive one-half of the approved funds once a contract has been executed and other requirements (*e.g.*, proof of insurance) have been completed. The remainder of the approved grant funds will be issued upon receipt of the final paperwork documenting project completion.

Applications must be received by the Colorado River Water Conservation District by **January 31, 2003**. Applications received after this date will not be accepted. Examples of completed applications are available on our website.

Send completed applications to:

David H. Merritt, Chief Engineer
Colorado River Water Conservation District
P.O. Box 1120
Glenwood Springs, CO 81602
(Deliveries: 201 Centennial Street, Suite 200, Glenwood Springs, CO 81601)

For further information you may contact David Merritt at (970) 945-8522, e-mail at dmerritt@crwcd.org, or see our website at <http://www.crwcd.org>

**POLICY FOR CONSIDERATION OF
FINANCIAL ASSISTANCE REQUESTS FROM THE
COLORADO RIVER WATER CONSERVATION DISTRICT**

Adopted October 21, 1997

Revised November 17, 1998, October 20, 1999, October 17, 2000, and October 17, 2001

The Colorado River Water Conservation District (District) will consider requests for financial assistance to water resource projects within the District which are consistent with the District's statutory purposes. Generally these purposes are: the beneficial use of water for agricultural, municipal, industrial, and other purposes; watershed management activities; water quality enhancement projects; and water efficiency enhancement projects. Such requests must be submitted to the District in writing in compliance with the following criteria:

1. Requests for financial assistance will be considered for only those projects which are consistent with the District's statutory mission.
2. The District will determine annually, through its budgeting process, the funding available for assistance.
3. The District Board will normally consider assistance requests at its April meeting each year. All requests for assistance must be submitted in writing to the District by the first business day after February 15th.
4. The District will periodically promulgate guidelines to be utilized to evaluate and prioritize assistance requests. Through those criteria the River District may target projects that address the specific needs of individual basins.
5. Completed projects are eligible for funding only if they were completed within one (1) year preceding the application due date.
6. The local government or water user (Applicant) making a request for assistance must demonstrate the ability to undertake and complete the project.
7. The Applicant and all other interest holders, such as facility owners, must accept all responsibility and liability associated with the proposed project, including but not limited to property interests, water rights, environmental and permit compliance, on-site and off-site project impacts, project construction, project operations, project maintenance and other obligations.
8. Proposed projects must be supported by a complete financial plan which shows capital and operational funding requirements and demonstrates and documents the need for project financial assistance.
9. District project grants will be limited to the following:
 - a. 50% of the first \$10,000 of project cost;
 - b. 20% of the subsequent \$50,000, up to a maximum grant amount of \$15,000.

The District will forward fifty percent (50%) of each grant to the grant recipient (Grantee)

once a grant contract has been signed and all other required documentation has been received. The remaining grant amount will be forwarded once the project has been completed and the District has received a completed "Request for Final Payment" form from the Grantee. The remaining grant amount may be less than fifty percent (50%) of the total grant amount originally approved by the District Board if the documented final cost of the Project is less than the original cost estimate. The total grant amount shall be equal to the amount allowed by the above formula based on the documented final cost of the Project or the amount originally approved by the District Board, whichever is less.

10. Applications for assistance from the District will be reviewed and prioritized solely at the District's discretion. Acceptance for review by the District of an application for financial assistance shall not constitute an obligation on the part of the District to provide such financial assistance. Requests will be evaluated and ranked based on competition for available funding. Incomplete applications may be rejected or result in a lower ranking.
11. In providing assistance, the District may evaluate or assess the technical adequacy of the proposal in order to prioritize project assistance requests. However, such an assessment shall not constitute a warranty or an engineering opinion on the project upon which the Applicant or any third party may rely.
12. Assistance grants will be implemented through a grant contract prepared by the District's Legal Department. The grant contract will include appropriate special conditions, including but not limited to: limitations on the use of grant funds, indemnification of the District by the Applicant, insurance requirements of the Applicant, and repayment requirements of the Applicant required by the District Board for limiting the use of grant funds. Grantees shall have sixty (60) days after the District's mailing of the final grant contract or any amendment to a grant contract to them in which to execute the final grant contract or amendment and deliver the executed original to the District's offices. If such execution and delivery are not accomplished in that time, the Grantee shall be deemed to have rejected the District's offer to contract and that offer shall terminate. If a Grantee fails to execute and deliver an amendment within that time, the River District may terminate the original grant contract and demand full repayment if grant funds already have been distributed. The District's Legal Department may modify the grant contract on a case-by-case basis to accommodate special circumstances, including completed projects, commenced projects, and projects sponsored by public entities subject to the Colorado Governmental Immunity Act. The insurance requirements may be modified with the approval of the General Manager. Once a contract has been signed, the estimated commencement and completion dates may be extended upon written approval by the Legal Department. All other substantive changes to the grant contract must be approved by the Board.

EVALUATION GUIDELINES USE OF CAPITAL PROJECTS FUND

BACKGROUND:

The interest from the River District's Capital Projects Fund may be made available annually through a competitive grant process to local governments, water districts, and other water users within the Colorado River Water Conservation District for activities that promote the responsible and efficient use of Colorado's Colorado River compact entitlement. These funds are intended as grants to fund actual implementation of a project.

It is anticipated that there may be more demand for the monies than there will be available funds; therefore, a ranking and selection criteria will be necessary. The amount of funds available will be determined by the District Board in its normal budget process. Projects will be fully evaluated based upon their own merits, however, and may be denied funding even if there are insufficient requests for the available annual funding.

ELIGIBILITY:

Projects eligible for funding will generally address one or more of the following:

1. Development of a new water supply.
2. Improvement of an existing system.
3. Measures to improve instream water quality.
4. Measures which promote water use efficiency.
5. Sediment reduction measures.
6. Implementation of watershed management actions.

It is important that the request clearly document the manner in which the proposal addresses the above measures.

It is expected that funding requests will be made for projects which have gone through normal planning, engineering, and environmental review processes and have a well established time-line for completion. As such, the majority of projects are expected to be on a path for implementation in the year the application is submitted for River District consideration. However, requests may be submitted for out-year funding consideration, with priority approval subject to appropriations in that out year. Completed projects are eligible for funding only if they were completed within one (1) year preceding the application due date.

APPLICATION:

All requests for funding for a given year must be submitted by **January 31st** of that given year (or the first business day if January 31st falls in a weekend). Each request must contain a project summary and a complete written description of the project, including the technical and financial aspects of the project, project schedule, and participation by others. The technical information should include a full detail of the project and should reference all relevant studies, documents, planning reports, and construction documents, which shall be made available upon request. All materials submitted shall be considered public documents and as such, available for public inspection and distribution.

EVALUATION:

The first step is a determination of the project's consistency with the statutory mission of the River District. The projects will then be evaluated based upon the merits of the proposed activity, the adequacy of the documentation submitted, the technical adequacy of the proposed activity, the expected effectiveness of the project, and the demonstrated capability of the applicant to undertake, complete, and operate the project.

Other factors which may be considered in the evaluation include:

1. Dollar value of the project;
2. Project participation (does the project involve a large number of individuals or entities within the River District's boundaries); and
3. Project uniqueness (does the project employ new methods which may serve as an example for other similar problems).

All proposals will be reviewed and ranked by the River District staff and presented to the Executive Committee of the Board during March of each year. The Executive Committee will make final recommendations to the River District Board for action at the Second Quarterly Board Meeting in April of each year.

COLORADO RIVER WATER CONSERVATION DISTRICT

Water Project Grant Program Insurance Requirements

In addition to the execution of a grant contract, all approved applicants or their contractor(s) must provide proof of insurance for the following categories. All certificates of insurance **must** reference the assigned grant contract number. These limits have been established by the Colorado River District's Board of Directors and are a requirement of the Water Project Grant Program. Failure to secure this insurance and to provide the necessary documentation to the River District may result in a denial of grant funds.

The required insurance limits are as follows:

- (1) Commercial General Liability:
 - A. Bodily Injury and Property Damage
\$1,000,000 each occurrence
\$1,000,000 aggregate
 - B. Personal Injury
\$1,000,000 each occurrence
\$1,000,000 aggregate
- (2) Commercial Auto Liability:
 - A. Bodily Injury & Property Damage
\$1,000,000 any one accident or loss
- (3) Worker's Compensation and Employer's Liability
 - A. Workers' Compensation: Statutory
 - B. Employer's Liability
\$100,000 each accident
\$100,000 disease - each employee
\$500,000 disease - policy limit

NOTES:

- (1) For public entities subject to the Colorado Governmental Immunity Act (C.R.S. §§ 24-10-101, *et seq.*), the insurance requirements will be equal to the limits of liability contained in the Act (\$150,000 for any one person in any single occurrence; \$600,000 for 2 or more persons in any single occurrence).
- (2) There are no insurance requirements for completed projects.
- (3) Where commercial automobiles are not utilized, personal auto insurance for the same limits will be required.
- (4) Insurance requirements may be modified with advance approval of the General Manager.

COLORADO RIVER WATER CONSERVATION DISTRICT
2003 Water Project Grant Program Application

Project Title:			
Project Sponsor:			
Contact Information	Name:	Address:	
Phone: ()	Fax: ()	Email:	
Is this a completed project? YES NO (Circle One)			
If YES: State Completion Date:			
If NO: Estimated Start Date:		Estimated Completion Date:	
Proposed Grant Amount:	\$	Match Amount (All Sources):	\$
Total Project Cost:	\$		
Basin: (Circle One) Gunnison Colorado White Yampa			
Project Category: (See instruction sheet for list of categories)			
Project Summary: (Attach additional pages if necessary)			
FOR CRWCD Use Only: Date Received: _____ Grant Contract No: CG03 _____			

COLORADO RIVER WATER CONSERVATION DISTRICT

2003 Water Project Grant Program Application

Instructions

- (A) **Project Title:** Indicate the name of the project.
- (B) **Project Sponsor:** Indicate the name of the individual and/or organization sponsoring the project. In the event a grant is awarded, the Project Sponsor is responsible for entering into a grant contract, providing proof of insurance and submitting all necessary information and forms. The Project Sponsor will also be the one to receive the grant funds and any required end-of-year tax reporting forms (*e.g.*, 1099 when receiving assistance over \$600).
- (C) **Contact Information:**
Name: Indicate the name of the contact individual responsible for answering questions regarding the application, project and grant contract.
Address: Indicate the address of the contact individual.
Phone: Indicate the phone number (including area code) of the contact individual.
Fax: Indicate the fax number of the contact individual (if any).
Email: Indicate the email address of the contact individual (if any).
- (D) **Completed Project Section:**
Is this a completed project? YES/NO (Circle the appropriate response).
If YES: State Completion Date: Indicate the completion date of the project (*e.g.*, 1/3/03).
NOTE: Completed projects are eligible for funding only if they were completed within one (1) year preceding the application due date (*i.e.*, January 31, 2003).
If NO: Estimated Start Date: Indicate the start date of the project (*e.g.*, 5/3/03).
Estimated Completion Date: Indicate the completion date of the project (*e.g.*, 12/3/03).
- (E) **Project Amount Section:**
Proposed Grant Amount: Indicate the amount of grant monies being requested:
NOTE: Project grants will be limited to the following:
(a) 50% of the first \$10,000 of project cost;
(b) 20% of the subsequent \$50,000, up to a maximum grant amount of \$15,000.
Match Amount (All Sources): Indicate all sources of matching funds requested and/or received from other individuals or organizations.
Total Project Cost: Indicate the total anticipated cost of the project, including "in kind" labor and equipment costs.
- (F) **Basin Section:** Circle the name of the water basin in which the project will be completed.
- (G) **Project Category:** Indicate the appropriate category(s) for the project. The acceptable categories are:
(1) Development of a new water supply;
(2) Improvement of an existing water supply system;
(3) Improvement of instream water quality;
(4) Measures which promote water use efficiency;
(5) Sediment reduction;
(6) Implementation of watershed management actions.
- (H) **Project Summary:** Provide a complete description of the project including the technical and financial aspects of the project, project schedule, project budget, project purpose, and participation by others. Attach additional pages if needed.

Completed applications must be received by the Colorado River Water Conservation District by **January 31, 2003**, and can be mailed to:

David H. Merritt, Chief Engineer
Colorado River Water Conservation District
P.O. Box 1120
Glenwood Springs, CO 81602

**APPLICATION FOR GRANT
2000 WATER PROJECT GRANT PROGRAM
COLORADO RIVER WATER CONSERVATION DISTRICT**

Project Title: A-1 Priority Group

Project Sponsor: A-1 Priority Group in cooperation with the Bookcliff Soil Conservation District

Contact Individual: John McBride

Phone Number 970 925 2102

FAX 970 925 2104

Proposed Grant Amount: \$15,000

Match Amount (all sources) none

Total Project \$35,625

Basin:

Gunnison

Colorado

White

Yampa

District Purpose: Improve an existing water supply system, Improve instream water quality, Promote water use efficiency and Reduce sedimentation.

Project Summary:

See attached summary and project map

PROPOSED PROJECT EXPENSES

A-1 PRIORITY GROUP

PROJECT COMPONENTS:	COST	TOTAL
• 1 Inlet Structure (10 cu/yd)	\$ 8,000	\$ 8,000
• 4 Headgates		
3 - 6 inch	300	900
1 - 8 inch	400	400
• Buried Pipe - 6 inch @ \$1.50		
6 inch - 1700 ft	2,550	2,550
6 inch - 2000 ft	3,000	3,000
6 inch - 2300 ft	3,450	3,450
8 inch @ \$2.25		
8 inch - 3300 ft	7,425	7,425
• Trenching @ 3.00 ft		
3,300 ft		9,900
TOTAL PROJECTED EXPENSES		\$35,625

PROJECT SUMMARY**A-1 PRIORITY GROUP****PROJECT PARTICIPANTS****WATER RIGHTS**

James R. Carnahan
29641 Highway 6
Rifle, CO 81650
PH: 625 3400

4.68 shares Cactus Valley Ditch
.66 CFS

Lee Estes
29979 Highway 6
Rifle, CO 81650
PH: 625 2945

1.81 shares Cactus Valley Ditch
.25 CFS

Donald Lloyd
2898 County Road 210
Rifle, CO 81650
PH: 625 9682

1.5 shares Cactus Valley Ditch
.21 CFS

John McBride
303 AABC, Suite E
Aspen, CO 81611
PH: 925 2102

6.24 shares Cactus Valley Ditch
.88 CFS

Doug Stewart
2888 County Road 210
Rifle, Co 81650
PH: 625 3096

3.5 shares Cactus Valley Ditch
.50 CFS

PROJECT LOCATION

East edge of Sections 1 and 6, T 6 South, R93 West.

ACRES SERVED

James Carnahan
Lee Estes
John McBride
Doug Stewart
Donald Lloyd

25.2 acres
8.1 acres
41.0 acres
13.8 acres
6.8 acres

TOTAL ACRES SERVED

104.9 acres

EXISTING SYSTEM

The Participants are currently using an open earth ditch system. The ditches are severely eroded. The water seepage from these ditches flow into an existing arroyo, which empties directly into the Colorado River.

SOLUTION

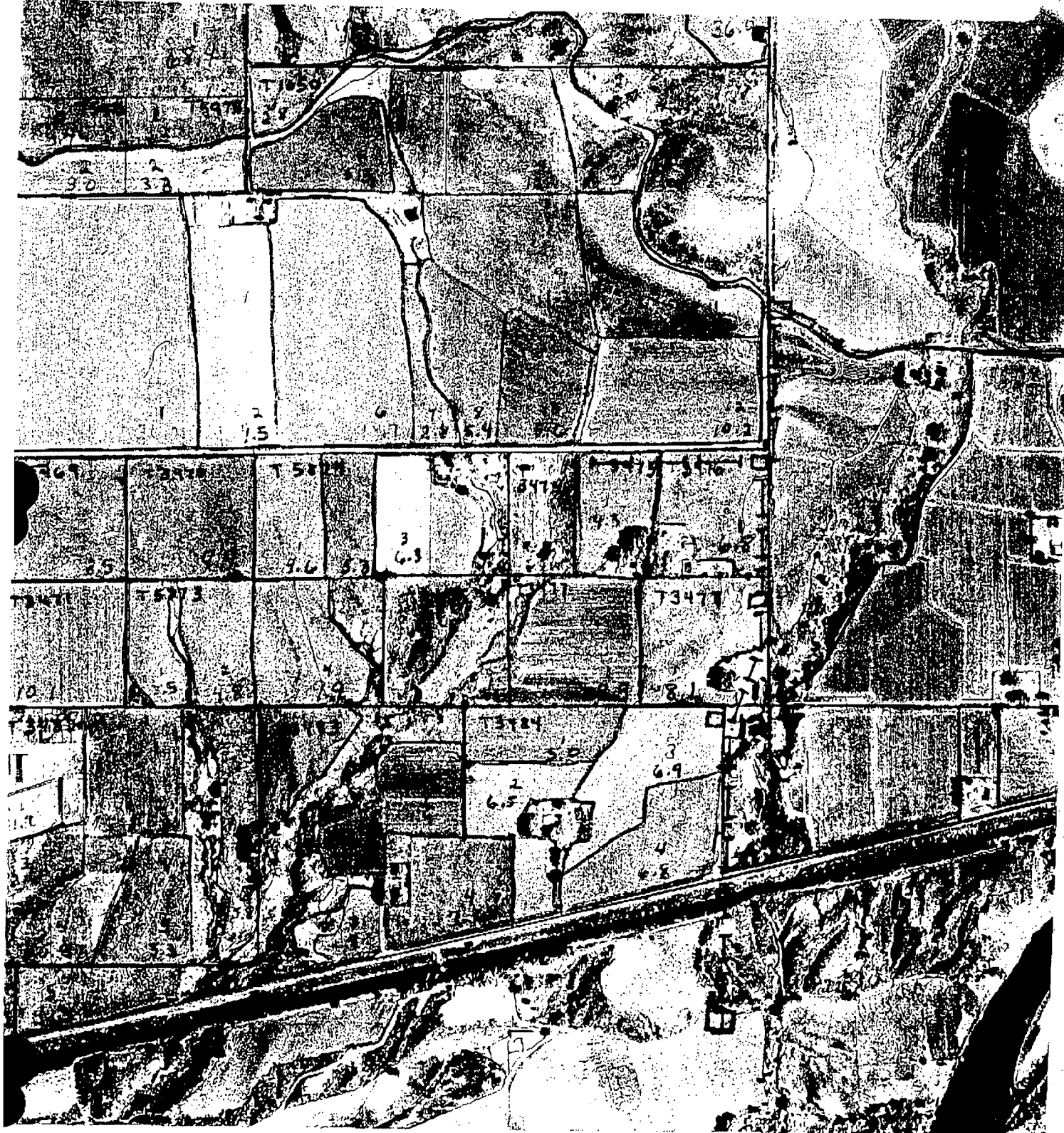
In a joint effort the above participants will install a diversion structure at the head of their shared ditch. From that structure, 4 pipelines will be laid in a common trench. Each pipeline will surface into a headgate at each property line. Cost of the trenching and diversion structure will be shared, with each each producer paying for their own pipeline and headgate. Components of project are addressed in the cost statement. Producers Stewart and Lloyd will share the cost of the 1700 ft pipeline and 1 headgate.

This project will:

1. Improve an existing water supply system
2. Improve instream water quality
3. Promote water use efficiency
4. Reduce sediment

CONSERVATION PLAN MAP

Owner A-1 Group Operator _____
County GARFIELD State CO Date 1-2000
Approximate acres _____ Approximate scale 1" = 660 ft.
Cooperating with Book Cliff Soil Conservation Conservation District _____
Plan identification _____ Photo number _____
Assisted by DAVIDSON - Kishimoto USDA Soil Conservation Service



**APPLICATION FOR GRANT
2000 CAPITAL GRANTS PROGRAM
COLORADO RIVER WATER CONSERVATION DISTRICT**

Project Title: Monitor Ditch Irrigation Diversion Project

Project Sponsor: North Fork River Improvement Association
2917 L50 Lane
Hotchkiss, CO 81419

Contact Individual: Jeffory Crane
Phone: (970) 872-2433
Fax: (970) 872-2439

Project Grant Amount: \$15,000
Total Project: \$119,738
Match Amount: \$104,738

Basin: Gunnison

District Purpose: Implement improvements of an existing irrigation diversion to eliminate annual gravel dams in the river and promote water use efficiency in keeping with the goals and objectives of the watershed management action plan of the North Fork of the Gunnison River.

Project Summary: This project is designed to divert decreed water into the existing Monitor irrigation ditch through a permanent headgate. The headgate will be sized to allow only decreed water and thereby increase in-stream flows in the channel. This design will also eliminate the need for bulldozers to construct annual gravel diversions that destabilize the channel and destroy habitat. This project will improve water delivery efficiency, decrease maintenance, improve water quality, stabilize banks, improve habitat, reduce sediment in the ditch, and educate the community. This project can be used to illustrate available technology for use at other diversion points in the watershed as well as throughout the western US.

Project Description and Narrative

The North Fork River Improvement Association, (NFRIA), is a grassroots, community led non-profit coalition of landowners dedicated to maintaining the traditional uses of the North Fork of the Gunnison River while improving stream stability, riparian habitat, and ecosystem function. The organization empowers local citizens of the North Fork Valley as the driving force behind restoration efforts. The intent of this grant application is to promote the responsible and efficient use of Colorado's compact entitlement. The project would improve an existing irrigation diversion structure and promote water use efficiency, increase in-stream flows, improve water quality, reduce sediment, and improve habitat as outlined in the community-directed Watershed Action Plan for the North Fork.

The most traditional use of the river in the North Fork Valley is the diversion of irrigation water for agricultural production. This valley has been diverting water for irrigation since 1884. Today there are thousands of acres of prime agricultural land under irrigation. There are a few major diversions along the river that utilize permanent headgates at the river but most simply divert water into their ditches by plowing up gravel dikes from the bottom of the river. This practice destabilizes the river channel, destroys riparian habitat, and adds excessive sediment to the river. With the loss of riparian vegetation and bank stability, many farmers and ranchers have found that the river has completely moved into a new channel after the following spring runoff. This aggravates the situation and requires even further earth-moving activities in the channel. Furthermore, most ditch companies find that they need to divert the whole river into their ditch and return what they do not have a decree for further down the river. This process short-circuits the river and further destroys habitat. This annual practice perpetuates a continuing cycle of increased channel destabilization and further promotes accelerated erosion and decreased water quality.

NFRIA has recently completed a new irrigation diversion structure for the Smith-McKnight ditch in Hotchkiss. The success of this project has sparked new interest from other ditch companies in the North Fork to improve their diversions through other cost-sharing initiatives. There are still at least seven other diversions on this river along the 10-mile stretch between the Towns of Paonia and Hotchkiss that still use annual gravel "push-up" dams to divert decreed water. In most cases it is the only option affordable to these irrigation companies. The CRWCD has been instrumental in the success of the Smith-McKnight project by partnering in that cost-sharing initiative. This proposed project would demonstrate a cost effective, long-term solution to the problem and build on a growing momentum to improve water efficiency on the North Fork.

This project proposes constructing a permanent concrete headgate structure designed to divert the decreed allocation of water allowed from the North Fork of the Gunnison River and keep any additional water in the river to be used for habitat. The headgate structure will consist of a reinforced concrete headwall with wingwalls, cutoffs, footers, and a slide gate. The structure will be located at the existing Monitor ditch diversion point midway between Paonia and Hotchkiss. This proposal would utilize a large diameter rock (3' to

6') weir across the river to create the necessary backwater for a low-flow diversion while still allowing for fish migration, bedload transport, and safe recreational boating. The maximum drop of the rock weir would be approximately 18". Balancing the morphological variables of the channel and constructing rock toe protection with overhanging native vegetation on the outside bank will stabilize the channel upstream of the diversion and improve habitat. Both banks approximately 500' up and downstream of the diversion will also be planted with willows. This diversion structure will eliminate the need to plow up gravel diversion dams each summer and allow the river to maintain morphological integrity.

The Monitor Ditch Company approached NFRIA following the construction of the Smith-McKnight demonstration project to help develop a funding partnership similar to the previous one. The Colorado State Soil Conservation Board has recently awarded this project \$10,000 from its Matching Grants program and the Monitor Ditch Company will match that amount. An application has been submitted to the Bureau of Reclamation's Water Conservation Field program for \$25,000 and past partners have expressed a renewed interest in participating in this project. The Colorado Dept of Transportation and the Delta County Public Works Dept loaded and hauled over \$90,000 worth of rock for the last project and have tentatively agreed to repeat that offer during the fall ditch cleaning efforts along state and county right-of-ways. The Natural Resources Conservation Service' area office in Grand Junction will assist in the design of the structure. The addition of new partners will also be researched.

Construction is planned between November 2000 and February of 2001 after the forthcoming irrigation season and when the flow of the river is at it's lowest point. The project should be completed within 60 days. The project will be monitored by evaluating the reliability of the structure to divert water during low-flow periods. Permanent cross sections will be developed within the project to determine erosion rates and overall channel stability. Vegetative transects will also be used along with photo points to evaluate the density and diversity of riparian vegetation. Results will be published in the Association's newsletter, on the Association's web site, in local papers, and in reports to funding agencies.

Monitor Ditch Irrigation Diversion Project

Project Budget

Item	Description	Quantity	Unit	Unit Price	Total
1	Mobilization	1	LS	1,000	1,000
2	Ditch Excavation	30	Hrs	125	3,750
3	30" CMP (Slide Area)	100	LF	25	2,500
4	Gravel Backfill at Headgate	80	CY	18	1,440
5	Reinforced Concrete for Inlet Structure	22	CY	650	14,300
6	ADS N12 Pipe at Headgate	60	LF	35	2,100
7	24" Slide Gate	1	EA	2,500	2,500
8	Headgate Trash Rack	1	EA	600	600
9	Rock Rip-Rap at Ditch Bank	60	CY	30	1,800
10	3'-6' dia Rock for in-channel grade control	1000	CY	50	50,000
11	Dewatering (Concrete Structure)	1	LS	2,000	2,000
12	Concrete Sluice Structure (ditch wasteway)	1	LS	10,000	10,000
13	Move and Reset Existing Parshall Flume	1	LS	300	300
14	Willow planting for bank stabilization	500	LF	3	1,500
15	Field Surveying	20	Hrs	75	1,500
16	Grant Administration	1	LS	500	500
Subtotal					95,790
17	10% Contingencies				9,579
18	15% Engineering				14,369
TOTAL					119,738

Project Schedule

	Begin	Complete
1 Final Engineering & Construction Drawings	Aug 2000	Oct 2000
2 Construction	Nov 2000	Feb 2001
3 Administration/Coordination/Final Report	Jun 2000	Apr 2001
4 Monitoring	Jan 2001	Annual for 3 years min.

Participant Data

Colorado River Water Conservation Dist.	15,000	cash
Bureau of Reclamation	25,000	cash
Monitor Ditch Co.	15,000	cash & in-kind
North Fork River Improvement Association	5,000	in-kind
Colorado State Soil Conservation Board	10,000	cash
Natural Resources Conservation Service	5,000	in-kind
General Service Foundation	10,000	cash
Colorado Dept. of Transportation	35,000	in-kind
TOTAL	120,000	

APPLICATION FOR GRANT
2000 WATER PROJECT GRANT PROGRAM
COLORADO RIVER WATER CONSERVATION DISTRICT

Project Title: *SHAEFFER PROPERTY 8" UNDERGROUND IRRIGATION WATER LINE*

Project Sponsor: *HB SHAEFFER*

5957 Rd 319, RIFLE, CO 81650

Contact Individual: *HB SHAEFFER*

Phone Number: *970-876-2819*

Proposed Grant Amount: *\$1,500.00* Match Amount(all sources): *\$3,100.00*
Total Project: *\$4,600.00*

BASIN: Gunnison Colorado White Yampa

DISTRICT PURPOSE:

PROJECT SUMMARY:

Shaeffer Property-8" underground irrigation water line.

The attached **Project Purpose and Project description** sets forth the general reasoning behind this project and request. I believe this project meets the Colorado River Water Conservation District grant program criteria. This project will both improve and guarantee a reliable source of irrigation water to these 50 acres of cropland. The overall improvement in water use efficiency will be an immediate benefit from the use of underground delivery of the source water plus the efficiency gained by flood irrigation with gated pipe vs. old style open ditches. Since the gated pipe system will deliver a constant flow of water, both in-field erosion as well as excess tail water from the irrigation process will be better controlled. This in turn will assist in improving instream water quality of all water sources downstream from the tail waters from these irrigated fields.

For additional information I may be contacted at (970-876-2819 or hrshaef@rof.net.

HB Shaeffer 2/6/00

SHAEFFER PROPERTY 8" UNDERGROUND IRRIGATION WATER LINE

PROJECT SPONSER: H. B. SHAEFFER

PROJECT PURPOSE:

Due to the rapid and extensive commercial development taking place along Airport Road between the I-70 interchange at Rifle and the Garfield County Regional Airport, the City of Rifle applied for and received an Energy Impact Grant to **improve a portion of Airport Road** along the southerly boundary of the **SHAEFFER PROPERTY**.

This road improvement will consist of construction and complete road improvement including the installation of three (3) 12-foot lanes on Airport Road from Taughenbaugh Road to as far east on Airport Road as funding will permit. The City of Rifle has contributed \$80,000, Garfield County \$40,000 and the Energy Impact Grant \$300,000 for a total of \$420,000.

The **SHAEFFER PROPERTY** owners have agreed to dedicate to the City of Rifle, **at no cost**, a strip of land located south of a line, which is thirty feet (30'), north of and parallel to the existing Airport Road centerline.

All head and lateral ditches used in the irrigation of the **SHAEFFER PROPERTY** croplands are located in this dedicated strip. This will be the third (3rd) time in the past few years that these ditches have been completely destroyed due to the on-going construction/expansion along this very important city/county corridor.

- First time these ditches were destroyed was when the city installed its water line out to the Co-Generation plant located just south of the Garfield County Regional Airport.
-
- Second time was when the city laid its sewer line out to its Industrial Park site just east of the **SHAEFFER PROPERTY**.
- Now with this Airport Road improvement these ditches will again be destroyed.

I have decided the only way to maintain a stable and reliable irrigation system on this cropland is to discontinue relying on the "old" system of flood irrigation using head and lateral ditches. The replacement system is as follows:

- Replace all head and lateral ditches with 8" gated plastic irrigation pipe laid just inside my fence along the north edge of the newly constructed Airport Road.
- In order to build up sufficient pressure in the 8" gated irrigation pipe, it will be necessary to install an underground 8" plastic pipeline from my headgate on the Loesch and Crann Ditch down to the southeast corner boundary of **THE SHAEFFER PROPERTY**.
- Once I have my water source underground, future construction, and building by adjacent landowners, road improvement projects, hook-ups to the city water, and sewer lines etc. *will cause minimum interruption to my irrigation system.* If I were to continue using the historical head and lateral ditch system each time someone would need to connect to the city water and or sewer system along **THE SHAEFFER PROPERTY line** it would disrupt my ability to irrigate my cropland.

**SHAEFFER PROPERTY
8" UNDERGROUND IRRIGATION WATER LINE**

PROJECT DESCRIPTION:

- Dig trench, lay and cover an eight inch (8") plastic pipeline from the headgate located on the Loesch Crann Ditch down to the southeast corner boundary.
- The footage of this line is 1000 feet north from L/C headgate down to and under the Airport Road, then west 300 feet along Airport Road to southeast corner of **SHAEFFER PROPERTY**. (see site map attached)
- Install riser, pressure valve and waste valve connection at the point the underground line enters the southeast corner of **SHAEFFER PROPERTY**.
- Install riser and waste valve connection at point, along the 8" gated irrigation pipeline, some 1250 feet west of southeast corner.
- Although this system requires several hundred feet of 8" gated irrigation pipe; I already have such pipe on hand and will not be asking for any cost share for this item.

PROJECT BUDGET:

• 1300 feet of 8" underground plastic pipe at \$2.00/ Ft	\$2,600.00
• Connections, valves, and fittings	\$1,000.00
• Trenching, Covering, and pipe installation	\$1,000.00
• TOTAL	\$4,600.00

PROJECT SCHEDULE:

- Construction of this project will be completed no later than May 15, 2000. If weather permits, we will attempt to have it constructed by April 15, 2000. These dates are necessary in order to get my irrigation system in and operational for the 2000 irrigation season.

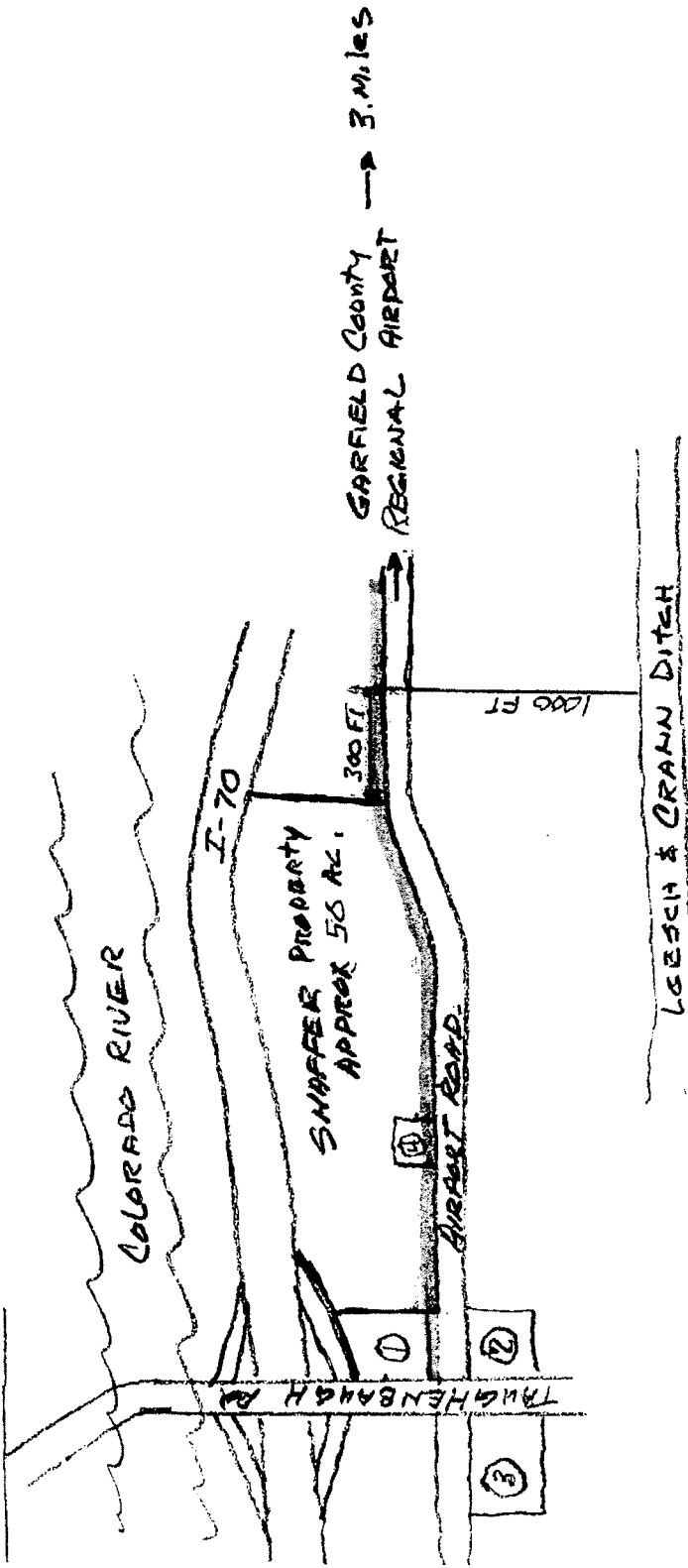
PROJECT SPONSOR:

• Proposed Grant Amount 33.333%, Colorado River Water Conservation District	\$1,500.00
• Project Sponsor Amount 66.667%, H. B. Shaeffer	\$3,100.00
• Total Project	\$4,600.00

SHAFFER PROPERTY

SITE MAP

CITY OF
RIFLE



LEGEND:

- ① ALPINE BANK SERVICE CENTER
- ② Phillips 66 station
- ③ Kum & Go Station
- ④ SHAFFER FARMSTEAD
- ⑤ AIRPORT RD. IMPROVEMENT
- ⑥ underground PIPE LINE
- ⑦ GATED IRRIGATION PIPELINE